

PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	09/707,900
Filing Date	November 8, 2000
First Named Inventor	Moon Jong Noh
Art Unit	1632
Examiner Name	Michael C. Wilson
Attorney Docket Number	55293-00007

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
mm		US- 4,886,747	12-12-1989	Derynck et al.	Whole document
		US- 5,168,051	12-01-1992	Derynck et al.	Whole document
		US- 5,284,851	02-08-1994	Derynck et al.	Whole document
		US- 5,482,851	01-09-1996	Derynck et al.	Whole document
		US- 5,770,774	12-23-1997	Hattersley et al.	Whole document
		US- 5,766,585	06-16-1998	Evans et al.	Whole document
		US- 5,801,231	09-01-1998	Derynck et al.	Whole document
		US- 5,846,931	02-02-1999	Hattersley et al.	Whole document
		US- 5,858,355	01-12-1999	Glorioso et al.	Whole document
		US- 5,902,741	05-11-1999	Purchio et al.	Whole document
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**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
mm	B1	1. WO96/39196	12-12-1996	University of Pittsburgh	whole document	
mm	B2	2. WO97/25414	07-17-1997	Vandenburgh	whole document	
mm	B3	3. WO99/11789	03-11-1999	North Shore University	whole document	
mm	B4	4. WO99/56785	11-11-1999	University of Pittsburgh	whole document	

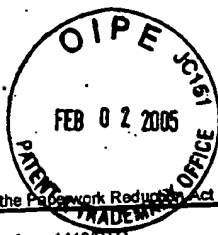
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		First Named Inventor	Moon Jong Noh
		Art Unit	1632
		Examiner Name	Michael C. Wilson
Attorney Docket Number	55293-00007		
Sheet	1	of	4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
mm	C1	CHERNAJOVSKY: Systemic gene therapy for arthritis, Drugs of Today, 35(4-5):361-377, Apr.-May 1999.	
	C2	ROBBINS et al.: Gene therapy for rheumatoid arthritis, Springer Seminars in Immunopathology, 20: 197-209, 1998.	
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	C5	MASON et al.: Expression of bone morphogenic protein 7 in primary rabbit periosteal cells: -, Gene Therapy, 1998.	
	C6	ARAI et al.: Adenovirus vector-mediated gene transduction to chondrocytes:~ J. Rheumatol, 24:1787-1795, 1997.	
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	C8	ANDREW et al.: Demonstration of TGF-beta-1 mRNA by in situ hybridization in normal fracture healing. Calcif Tissue Int, 52: 74-78, 1993. (Abstract only)	
	C9	BOURQUE et al.: Expression of four growth factors during fracture repair. Int J Dev Biol, 37: 573-579, 1993. (Abstract only)	
mm	C10	BRAND and SCHNEIDER: Inactive type II and type I receptors: TGF-beta are dominant inhibitors of TGF-beta-dependent transcription. J Biol Chem, 270: 8274-8284, 1995.	

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<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)	<b>Complete if Known</b>	
	Application Number	09/707,900
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	First Named Inventor	Moon Jong Noh
	Art Unit	1632
	Examiner Name	Michael C. Wilson
Sheet 2 of 4	Attorney Docket Number	55293-00007

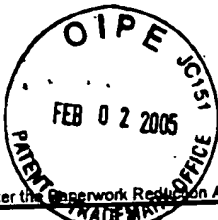
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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
mm	C11	BRITTBURG et al.: Treatment of deep cartilage defects in the knee with autologous chondrocyte transplantation. New Engl J Med 331: 889-895, 1994.	
	C12	CARRINGTON et al.: Accumulation, localization and compartmentation of TGF-beta. during enchondral bone development. J Cell Biology, 107: 1969 1975, 1988.	
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	C15	CHENU et al.: TGF-beta inhibits formation of osteoclast-like cells in long-term human marrow cultures. Proc Natl Acad Sci, 85: 5683-5687, 1988.	
	C16	CRITCHLOW et al.: The effect of exogenous transforming growth factor. Beta.2 on healing fractures in the rabbit. Bone, 521-527, 1995.	
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	C19	FRENKEL et al.: Chondrocyte transplantation using a collagen bilayer matrix for cartilage repair. J Bone J Surg [Br] 79-B: 831-836, 1997. (Abstract only)	
mm	C20	HEINE et al.: Role of Transforming Growth Factor-beta in the development of the mouse embryo. Cell Biology, 105: 2861-2876, 1987.	

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Attorney Docket Number	55293-00007

Sheet	3	of	4
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**NON PATENT LITERATURE DOCUMENTS**

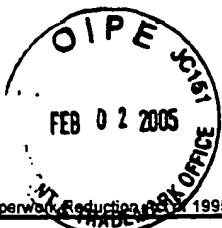
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and	C21	JOYCE et al.: Transforming Growth Factor-beta and the initiation of chondrogenesis and osteogenesis in the rat femur. J Cell Biology, 110: 2195-2207, 1990.	
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	C23	LOPEZ-CASILLAS et al.: Structure and expression of the membrane proteoglycan component of the TGF-beta receptor system. Cell, 67: 785-795, 1991.	
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	C25	MASSAGUE: TGF-Beta Signal Transduction Ann. Rev. Biochem. 67:753-791, 1998.	
	C26	MATSUMOTO et al.: Expression and Distribution of Transforming Growth Factor-beta. During Fracture Healing. In vivo, 8: 215-220, 1994. (Abstract only)	
	C27	MEERT et al: Elevated Transforming Growth Factor-beta Concentration ~, The Journal of Trauma, Injury, Infection and Critical Care, vol. 40, No. 6, pp. 901-906, 1996.	
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	C29	OZKAYNAK et al.: OP-1 cDNA Encodes an Osteogenic Protein in the TGF-beta Family. EMBO J, 9: 2085-2093, 1990. (Abstract only)	
and	C30	SPORN and ROBERTS: Peptide Growth Factors are Multifunctional. Nature (London), 332: 217-219, 1988. (Abstract only)	

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Sheet 4

of

4

**NON PATENT LITERATURE DOCUMENTS**

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WJN	C31	WAKEFIELD et al.: Latent Transforming Growth Factor-beta from Human Platelets. J Biol Chem, 263: 7646-7654, 1988.	
	C32	WRANA et al.: Mechanism of Activation of the TGF-beta Receptor. Nature, 370: 341-347, 1994. (Abstract only)	
	C33	SONG et al.: Plasmid DNA Encoding Transforming-, J. Clin. Investigation, 101: 2615-2621, Jun. 15, 1998.	
	C34	SITTINGER et al.: Joint cartilage regeneration by tissue engineering, Zeitschrift fuer Rheumatologie. 58(3): 130-135, Jun. 1999.	
	C35	PRUD'HOMME et al.: Anticytokine Gene Therapy of Autoimmune Diseases. Exp. Opin. Biol. Ther, 1(3):359-373, 2001.	
	C36	MOLLER et al.: TGF-beta-1 gentransfer in gelenkknorpzellen (TGF beta-1 gene transfer in articular chondrocytes). Orthopade, 29(2): 75-9, Feb. 2000. (English abstract)	✓
WJN	C37	MOLLER and EVANS, Genetherapeutische Ansätze in der Arthrosebehandlung (Gene transfer in the treatment of arthritis), Orthopade, 28(1): 76-81, Jan. 1999. (English abstract)	✓
	C38		
	C39		
	C40		

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